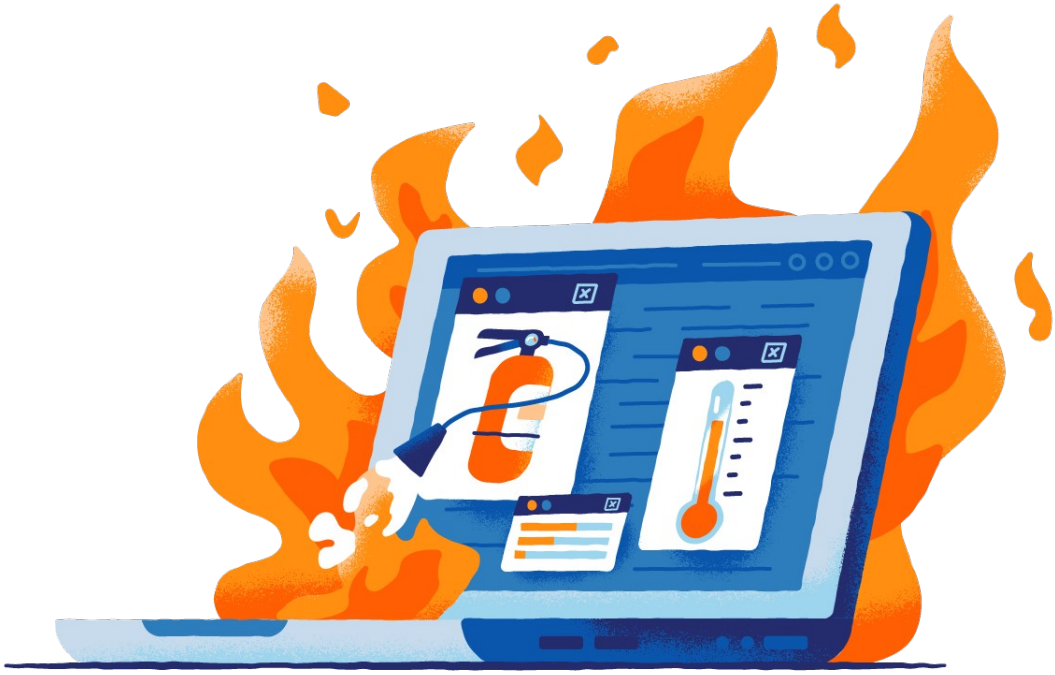
Actividad UD02_T3 -Temperatura

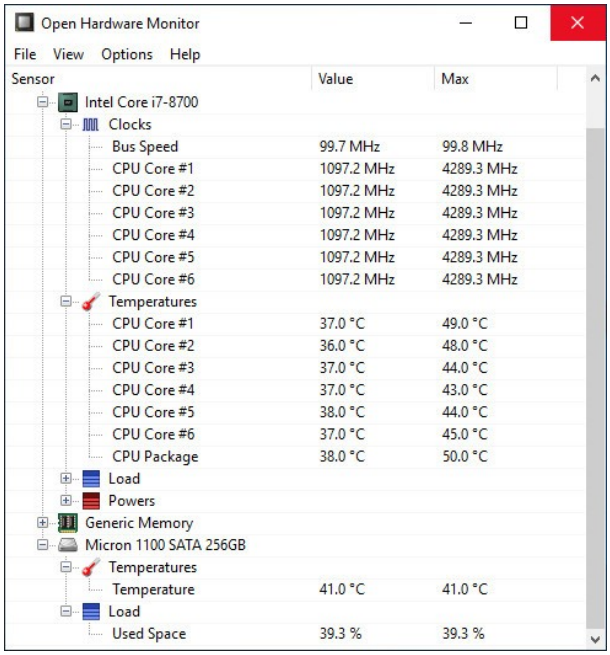


Índice

Envía las respuestas a las siguientes actividades en un documento pdf.

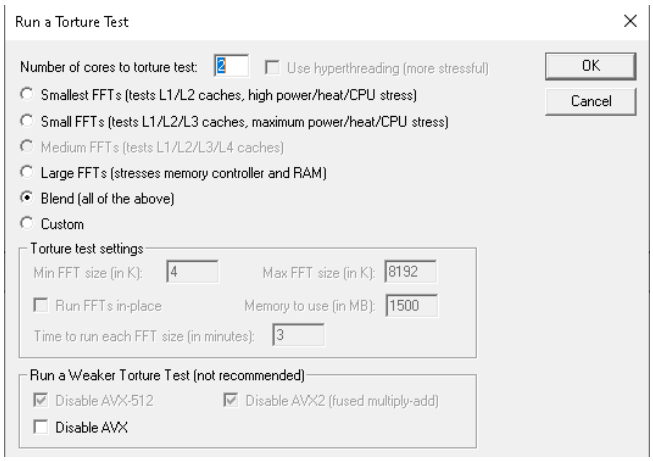
1. Investiga e instala un programa para controlar la temperatura de la CPU y/o GPU. Realiza un informe con los datos obtenidos.

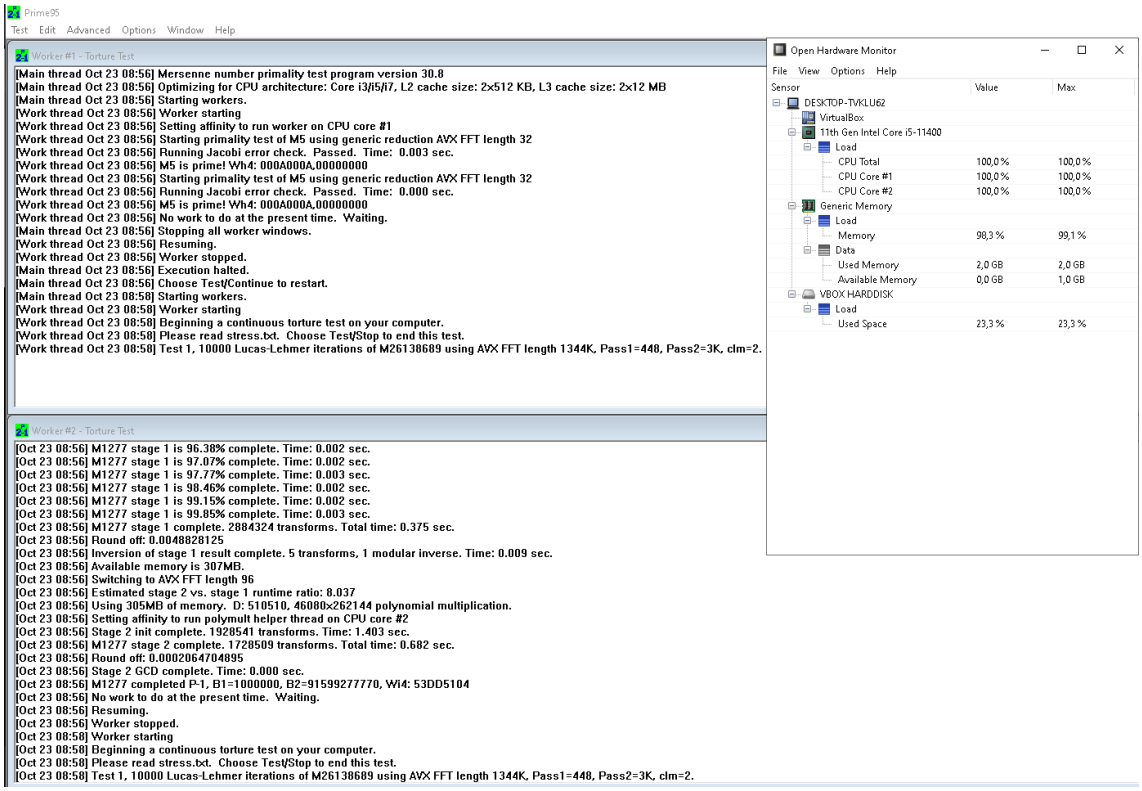
Puedes utilizar el software *Open Hardware Monitor* o cualquier otro.

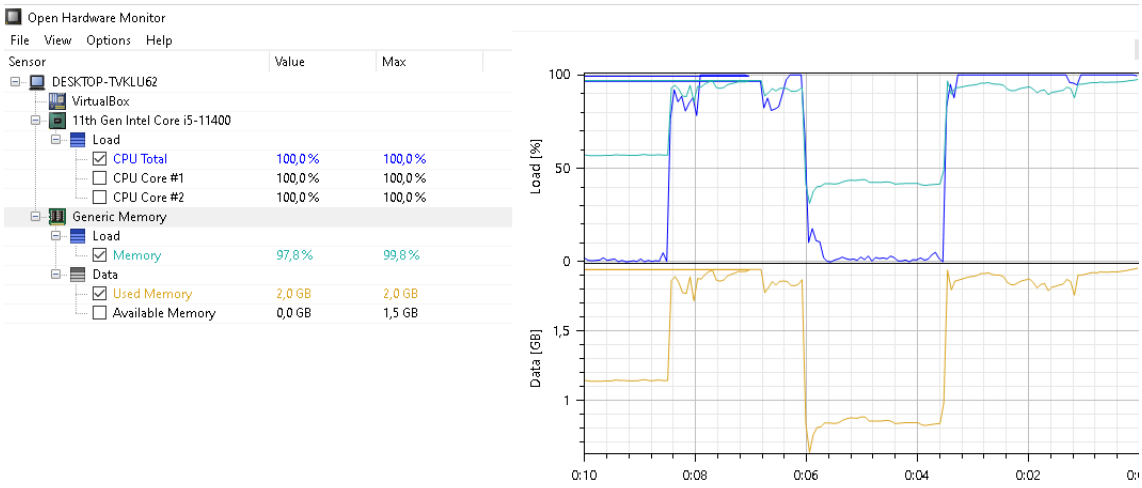


2. Investiga qué es un test de estrés.

Un test de estrés en informática es una prueba que se realiza para determinar la estabilidad de un sistema o componente bajo condiciones de alta carga. Su objetivo es medir el rendimiento del software al sobrecargar sus indicadores normales de funcionalidad.
Sigue los pasos relatados en el enlace para realizar un test de estrés: https://www.mersenne.org/download/#stresstest




Prime95
Test Edit Advanced Options Window Help
Worker #1 - Torture Test
[Main thread Oct 23 08:56] Mersenne number primality test program version 30.8
[Main thread Oct 23 08:56] Optimizing for CPU architecture: Core i3/i5/i7, L2 cache size: 2x512 KB, L3 cache size: 2x12 MB
[Main thread Oct 23 08:56] Starting workers.
[Work thread Oct 23 08:56] Worker starting
[Work thread Oct 23 08:56] Setting affinity to run worker on CPU core #1
[Work thread Oct 23 08:56] Starting primality test of M5 using generic reduction AVX FFT length 32
[Work thread Oct 23 08:56] Running Jacobi error check. Passed. Time: 0.003 sec.
[Work thread Oct 23 08:56] M5 is prime! Wh4: 000A000A,00000000
[Work thread Oct 23 08:56] Starting primality test of M5 using generic reduction AVX FFT length 32
[Work thread Oct 23 08:56] Running Jacobi error check. Passed. Time: 0.000 sec.
[Work thread Oct 23 08:56] M5 is prime! Wh4: 000A000A,00000000
[Work thread Oct 23 08:56] No work to do at the present time. Waiting.
[Main thread Oct 23 08:56] Stopping all worker windows.
[Work thread Oct 23 08:56] Resuming.
[Work thread Oct 23 08:56] Worker stopped.
[Main thread Oct 23 08:56] Execution halted.
[Main thread Oct 23 08:56] Choose Test/Continue to restart.
[Main thread Oct 23 08:58] Starting workers.
[Work thread Oct 23 08:58] Worker starting
[Work thread Oct 23 08:58] Beginning a continuous torture test on your computer.
[Work thread Oct 23 08:58] Please read stress.txt. Choose Test/Stop to end this test.
[Work thread Oct 23 08:58] Test 1, 10000 Lucas-Lehmer iterations of M26138689 using AVX FFT length 1344K, Pass1=448, Pass2=3K, clm=2.
Worker #2 - Torture Test
[Oct 23 08:56] M1277 stage 1 is 96.38% complete. Time: 0.002 sec.
[Oct 23 08:56] M1277 stage 1 is 97.07% complete. Time: 0.002 sec.
[Oct 23 08:56] M1277 stage 1 is 97.77% complete. Time: 0.003 sec.
[Oct 23 08:56] M1277 stage 1 is 98.46% complete. Time: 0.002 sec.
[Oct 23 08:56] M1277 stage 1 is 99.15% complete. Time: 0.002 sec.
[Oct 23 08:56] M1277 stage 1 is 99.85% complete. Time: 0.003 sec.
[Oct 23 08:56] M1277 stage 1 complete. 2884324 transforms. Total time: 0.375 sec.
[Oct 23 08:56] Round off: 0.0048828125
[Oct 23 08:56] Inversion of stage 1 result complete. 5 transforms, 1 modular inverse. Time: 0.009 sec.
[Oct 23 08:56] Available memory is 307MB.
[Oct 23 08:56] Switching to AVX FFT length 96
[Oct 23 08:56] Estimated stage 2 vs. stage 1 runtime ratio: 8.037
[Oct 23 08:56] Using 305MB of memory. D: 510510, 46080x262144 polynomial multiplication.
[Oct 23 08:56] Setting affinity to run polymult helper thread on CPU core #2
[Oct 23 08:56] Stage 2 init complete. 1928541 transforms. Time: 1.403 sec.
[Oct 23 08:56] M1277 stage 2 complete. 1728509 transforms. Total time: 0.682 sec.
[Oct 23 08:56] Round off: 0.0002064704895
[Oct 23 08:56] Stage 2 GCD complete. Time: 0.000 sec.
[Oct 23 08:56] M1277 completed P-1, B1=1000000, B2=91599277770, Wi4: 53DD5104
[Oct 23 08:56] No work to do at the present time. Waiting.
[Oct 23 08:56] Resuming.
[Oct 23 08:56] Worker stopped.
[Oct 23 08:58] Worker starting
[Oct 23 08:58] Beginning a continuous torture test on your computer.
[Oct 23 08:58] Please read stress.txt. Choose Test/Stop to end this test.
[Oct 23 08:58] Test 1, 10000 Lucas-Lehmer iterations of M26138689 using AVX FFT length 1344K, Pass1=448, Pass2=3K, clm=2.
Open Hardware Monitor
File View Options Help
Sensor Value Max
DESKTOP-TVKLU62
VirtualBox
11th Gen Intel Core i5-11400
Load
CPU Total 100,0 % 100,0 %
CPU Core #1 100,0 % 100,0 %
CPU Core #2 100,0 % 100,0 %
Generic Memory
Load
Memory 98,3 % 99,1 %
Data
Used Memory 2,0 GB 2,0 GB
Available Memory 0,0 GB 1,0 GB
VBOX HARDDISK
Load
Used Space 23,3 % 23,3 %


Open Hardware Monitor
File View Options Help
Sensor Value Max
DESKTOP-TVKLU62
VirtualBox
11th Gen Intel Core i5-11400
Load
CPU Total 100,0 % 100,0 %
CPU Core #1 100,0 % 100,0 %
CPU Core #2 100,0 % 100,0 %
Generic Memory
Load
Memory 97,8 % 99,8 %
Data
Used Memory 2,0 GB 2,0 GB
Available Memory 0,0 GB 1,5 GB
Load [%]
100
50
0
Data [GB]
1,5
1
0:10
0:08
0:06
0:04
0:02

3. Investiga e instala un programa para controlar la ventilación interna de un equipo informático. Realiza un informe con los datos obtenidos.

Puedes utilizar el software *Speedfan* o cualquier otro.